

ROBUST COMMUNICATION SYSTEM FOR
TRANSMISSIONS IN A NOISY ENVIRONMENT

Abstract of the Disclosure

A robust communication system for
transmitting through a noisy environment includes a
signal source for providing discrete signals, a chaotic
5 modulator for modulating the discrete signals, and an
incoherent discriminator or receiver for receiving the
modulated signals. The incoherent discriminator
includes a high-pass filter for removing the lowest
frequency harmonics of the received signals, a
10 rectifier for providing an absolute value of the
received signals, a low-pass filter and a comparator
after the low-pass filter.